Industrial Motors

Commercial &
Appliance Motors

Automation

Digital &
Systems

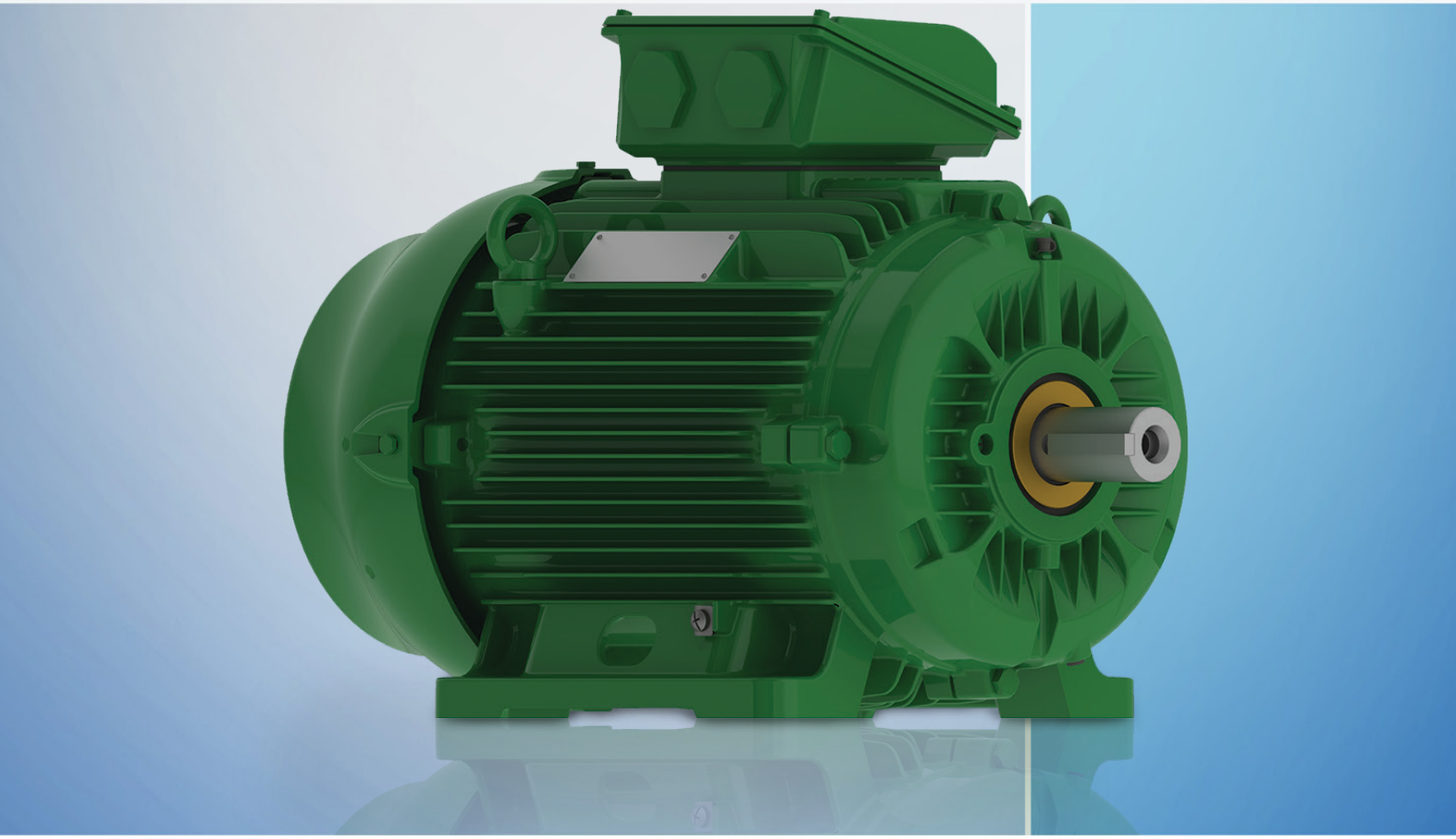
Energy

Transmission &
Distribution

Coatings

W22 Severe Process

IE3 Premium Efficiency Motors



Driving efficiency and sustainability

WEG's **W22 Severe Process Motor** range is based on the highly successful NEMA IEEE 841 severe duty line, and exceeds the requirements of the **IEEE 841** Std 841TM-2009, one of the toughest motor standards in Industry today.

Specially designed for use in aggressive environments such as those found in the Petrochemical Industry, Process Plants, Pulp and Paper and Steel Mills, the WEG W22 Severe Process line is ideally suited to applications requiring long life under the harshest operating conditions.

Complying as standard with the IE3 efficiency level defined in the IEC 60034-30 standard, the WEG W22 Severe Process range of motors are suited to either fixed or variable speed duties on applications including fans, pumps, compressors, mixers, blowers and other material processing applications.

Product Overview

Standard Features

- Premium Efficiency IE3 according to IEC 60034-30-1 Edition 1 (March 2014)
- Power ratings up to 355kW (frame sizes 90 to 355)
- Service factor 1.0
- Class F insulation (with class H wire and impregnation resin)
- Internal surfaces epoxy coated (tropicalised)
- High quality silicon steel laminations
- Suitable for variable speed drive application
- Thermal protection - 3 x PTC thermistors
- Bearing life 50,000 hours (L10)
- Re-lubrication nipples for all frames
- Stainless steel extension tubes and automatic grease relief fittings
- Bearing sealing with taconite labyrinth (exceeds IP56)
- Neoprene gasket sealing separator between terminal box and frame
- Maximum Vibration Level 1.52mm (Grade B according to IEC 60034-14)
- Guaranteed foot flatness to within 0.127mm
- Non sparking cooling fan (bronze / conductive plastic)
- Epoxy paint system meeting C3 per ISO 12944
- Laser etched stainless steel nameplate
- Automatic stainless steel drain plugs
- IEEE 841 Test Report provided for each motor
- 3 year warranty

Optional Features

- Super Premium Efficiency IE4
- Terminal box located on right or left side
- Other thermal protections - space heaters, thermostats, PT100
- Class H insulation
- Enhanced degree of protection to IP65 / IP66
- Vibration Level Grade B according IEC 60034-14
- Provision for SPM vibration detectors
- Insulated bearing / endshield
- Alternative paint plans meeting C5/I or C5/M per ISO 12944
- Full NEMA version (with InproSeal®)
- VIK compliant version
- Ex nA Non-Sparking execution (ATEX / IEC Ex compliant)

Energie für die Industrie

NEMA Premium®

IEEE Std 841™-2009

Electrical Data

W22 Severe Process Motor - Premium Efficiency - IE3[1]

Output		Frame	Full load torque (Nm)	Locked rotor current Il/In	Locked rotor torque Tl/Tn	Breakdown torque Tb/ Tn	Inertia J (kgm²)	Allowable locked rotor time (s)		Weight (kg)	Sound dB (A)	400 V							
												Rated speed (rpm)	% of full load						Full load current In (A)
													Efficiency			Power factor			
kW	HP							Hot	Cold				50	75	100	50	75	100	
II pole																			
1.5	2	90S	4.99	7.6	3.3	3.3	0.0020	15	33	18.5	62	2875	83.0	85.0	85.0	0.64	0.76	0.83	3.07
2.2	3	90L	7.32	7.5	3.4	3.5	0.0026	12	26	23.5	62	2870	86.0	86.5	86.3	0.65	0.77	0.83	4.43
3	4	100L	9.85	8.5	3.4	3.4	0.0064	15	33	32.0	67	2910	85.5	87.3	87.3	0.69	0.81	0.86	5.77
4	5.5	112M	13.2	7.7	2.9	3.5	0.0080	22	48	41.0	64	2900	88.1	89.1	89.5	0.69	0.80	0.86	7.50
5.5	7.5	132S	17.9	8.3	2.6	3.2	0.0216	23	51	65.0	67	2930	88.3	89.7	90.0	0.72	0.82	0.88	10.1
7.5	10	132S	24.4	8.5	3	3.4	0.0252	17	37	69.0	67	2935	89.1	90.5	90.8	0.69	0.80	0.86	13.9
9.2	12.5	132M	30.0	8.5	2.9	3.3	0.0306	16	35	78.0	67	2930	90.4	91.1	91.1	0.75	0.84	0.88	16.6
11	15	160M	35.6	8.0	2.7	3.5	0.0554	17	37	115	67	2950	91.0	92.3	92.7	0.71	0.81	0.85	20.1
15	20	160M	48.6	8.0	2.6	3.3	0.0625	12	26	119	67	2950	91.5	92.5	92.9	0.71	0.81	0.86	27.1
18.5	25	160L	59.9	8.4	2.8	3.6	0.0735	8	18	136	67	2950	92.0	92.9	93.2	0.70	0.80	0.86	33.3
22	30	180M	71.1	8.0	2.5	3.3	0.1130	11	24	176	67	2955	92.5	93.3	93.7	0.73	0.82	0.87	39.0
30	40	200L	96.7	7.3	2.6	2.9	0.1873	20	44	244	72	2965	92.8	94.0	94.1	0.73	0.82	0.86	53.5
37	50	200L	119	7.3	2.6	2.9	0.2119	17	37	265	72	2965	93.3	94.0	94.6	0.73	0.82	0.86	65.6
45	60	225S/M	145	8.0	2.7	3.2	0.3380	12	26	416	74	2970	94.6	95.1	95.1	0.77	0.85	0.88	77.6
55	75	250S/M	177	7.9	2.8	2.9	0.4924	14	31	485	74	2965	94.9	95.3	95.4	0.80	0.86	0.89	93.5
75	100	280S/M	240	7.6	2.3	2.9	1.21	32	70	727	77	2980	94.5	95.3	95.6	0.82	0.88	0.90	126
90	125	280S/M	289	7.4	2.2	2.8	1.34	30	66	762	77	2980	94.8	95.6	95.8	0.84	0.89	0.90	151
110	150	315S/M	353	7.6	2.5	3	2.12	30	66	962	77	2980	94.7	95.7	96.1	0.80	0.87	0.89	186
132	175	315S/M	423	7.5	2.1	2.8	2.56	30	66	1048	77	2980	95.2	95.9	96.3	0.83	0.89	0.90	220
160	220	315S/M	513	7.9	2.3	2.8	2.99	24	53	1129	77	2980	95.6	96.2	96.6	0.83	0.89	0.91	263
185	250	315S/M	593	7.8	2.4	2.7	3.20	22	48	1197	77	2980	95.7	96.4	96.6	0.83	0.89	0.90	307
200	270	315L	641	8.2	2.6	2.8	3.42	17	37	1305	78	2980	96.0	96.5	96.7	0.83	0.89	0.90	332
220	300	315L	705	7.7	2.4	2.6	3.72	24	53	1370	78	2980	96.1	96.5	96.7	0.84	0.89	0.91	361
250	340	315L	802	7.8	2.5	2.7	4.17	17	37	1434	78	2980	96.4	96.6	96.8	0.86	0.90	0.91	410
260	350	315L	834	7.8	2.5	2.7	4.17	17	37	1434	78	2980	96.4	96.6	96.8	0.86	0.90	0.91	426
280	380	315L	898	8.0	2.6	3	4.17	22	48	1510	78	2980	96.2	96.8	96.8	0.87	0.90	0.91	459
315	430	355M/L	1010	7.7	2.1	2.5	6.01	18	40	1838	80	2980	96.4	96.8	96.9	0.87	0.90	0.91	516

Note:
(1) Efficiency values are given according to IEC 60034-2-1. They are calculated according to indirect method, with stray load losses determined by measurement.

W22 Severe Process Motor - Premium Efficiency - IE3[1]

Output		Frame	Full load torque (Nm)	Locked rotor current Il/In	Locked rotor torque Tl/Tn	Breakdown torque Tb/ Tn	Inertia J (kgm²)	Allowable locked rotor time (s)		Weight (kg)	Sound dB (A)	400 V							
												Rated speed (rpm)	% of full load						Full load current In (A)
													Efficiency			Power factor			
kW	HP							Hot	Cold				50	75	100	50	75	100	
IV pole																			
1.1	1.5	90S	7.22	7.6	2.5	3.3	0.0055	15	33	19.5	49	1455	83.0	84.5	84.8	0.59	0.72	0.80	2.34
1.5	2	90L	9.88	7.4	2.6	3.4	0.0066	13	29	23.0	49	1450	84.0	86.0	86.0	0.58	0.72	0.80	3.15
2.2	3	100L	14.6	7.4	3.2	3.5	0.0090	18	40	31.5	53	1435	86.5	87.0	87.0	0.60	0.73	0.80	4.56
3	4	L100L	19.9	7.8	3.5	3.7	0.0120	15	33	37.5	53	1440	87.0	88.0	88.0	0.60	0.73	0.80	6.15
4	5.5	112M	26.4	7.0	2.3	3.1	0.0182	15	33	44.0	56	1450	88.7	89.1	89.1	0.60	0.72	0.79	8.20
5.5	7.5	132S	35.9	8.5	2.4	3.4	0.0528	15	33	69.0	56	1465	90.0	90.7	90.7	0.67	0.79	0.85	10.3
7.5	10	132M	48.9	8.5	2.5	3.4	0.0642	13	29	78.0	56	1465	91.0	91.5	91.5	0.68	0.79	0.84	13.9
9.2	12.5	160M	59.6	7.2	2.5	3	0.1149	16	35	109	61	1475	90.0	91.4	91.8	0.66	0.77	0.83	17.4
11	15	160M	71.5	7.0	2.5	3	0.1397	17	37	123	61	1470	91.0	91.8	92.2	0.65	0.76	0.83	20.7
15	20	160L	97.5	7.3	2.7	3.2	0.1743	10	22	145	61	1470	91.8	92.5	93.0	0.65	0.76	0.82	28.4
18.5	25	180M	120	7.3	2.7	3	0.2001	20	44	180	61	1470	92.2	92.9	93.3	0.64	0.76	0.82	34.9
22	30	180L	143	7.3	2.8	3.3	0.2272	18	40	198	61	1470	92.4	93.0	93.6	0.66	0.77	0.83	40.9
30	40	200L	194	7.3	2.5	3	0.3469	16	35	243	63	1480	93.0	94.0	94.2	0.64	0.75	0.82	56.1
37	50	225S/M	239	7.8	2.7	3	0.6388	14	31	392	63	1480	94.0	94.6	94.6	0.72	0.81	0.86	65.6
45	60	225S/M	291	7.9	2.8	3.2	0.6903	13	29	420	63	1480	94.2	94.8	94.8	0.70	0.80	0.85	79.4
55	75	250S/M	355	7.9	2.8	3.3	1.11	14	31	507	64	1480	94.6	95.0	95.3	0.71	0.81	0.86	96.9
75	100	280S/M	483	7.6	2.3	2.8	2.25	26	57	729	69	1485	94.7	95.2	95.6	0.75	0.83	0.87	130
90	125	280S/M	579	7.4	2.3	2.8	2.55	25	55	777	69	1485	95.0	95.5	95.8	0.74	0.82	0.86	158
110	150	315S/M	705	7.5	2.6	2.7	3.55	30	66	1010	71	1490	95.4	95.9	96.3	0.74	0.83	0.86	192
132	175	315S/M	846	7.6	2.9	3	4.22	26	57	1095	71	1490	95.5	96.0	96.4	0.75	0.83	0.86	230
150	200	315S/M	962	7.8	2.7	2.9	3.77	27	59	1180	71	1490	95.4	95.8	95.9	0.71	0.81	0.85	266
160	220	315S/M	1026	7.6	2.6	2.6	4.65	22	48	1152	71	1490	95.7	96.2	96.5	0.75	0.83	0.87	275
185	250	315S/M	1186	7.6	2.5	2.5	4.97	18	40	1222	71	1490	95.8	96.3	96.5	0.74	0.83	0.87	318
200	270	315L	1283	7.6	2.5	2.5	5.30	20	44	1332	73	1490	96.1	96.5	96.7	0.74	0.83	0.87	343
220	300	315L	1411	7.8	2.6	2.6	5.86	16	35	1430	73	1490	96.1	96.6	96.7	0.74	0.83	0.86	382
250	340	315L	1603	8.0	2.7	2.6	6.41	16	35	1527	73	1490	96.2	96.6	96.9	0.73	0.82	0.86	433
260	350	315L	1667	8.0	2.7	2.6	6.41	16	35	1527	73	1490	96.2	96.6	96.9	0.73	0.82	0.86	450
280	380	355M/L	1796	7.3	2.3	2.4	9.66	20	44	1695	74	1490	96.3	96.7	96.9	0.74	0.83	0.86	485
315	430	355M/L	2020	7.3	2.3	2.4	10.7	22	48	1772	74	1490	96.4	96.7	96.9	0.71	0.81	0.85	552
355	480	355M/L	2277	7.2	2.4	2.5	11.6	15	33	1878	74	1490	96.5	96.8	96.9	0.74	0.83	0.86	615

Note:
(1) Efficiency values are given according to IEC 60034-2-1. They are calculated according to indirect method, with stray load losses determined by measurement.

Electrical Data

W22 Severe Process Motor - Premium Efficiency - IE3[1]

Output		Frame	Full load torque (Nm)	Locked rotor current Il/In	Locked rotor torque Tl/Tn	Breakdown torque Tb/ Tn	Inertia J (kgm²)	Allowable locked rotor time (s)		Weight (kg)	Sound dB (A)	400 V							
												Rated speed (rpm)	% of full load						Full load current In (A)
													Efficiency			Power factor			
kW	HP							Hot	Cold				50	75	100	50	75	100	
VI pole																			
0.75	1	L90S	7.62	5.2	2.5	2.8	0.0066	31	68	22.0	45	940	76.5	79.0	79.0	0.49	0.62	0.71	1.93
1.1	1.5	100L	11.1	4.9	2	2.4	0.0110	32	70	28.5	44	945	80.5	81.0	81.0	0.51	0.65	0.73	2.69
1.5	2	100L	15.1	5.5	2.3	2.8	0.0143	31	68	32.0	44	950	81.5	82.5	82.5	0.49	0.62	0.71	3.70
2.2	3	112M	22.1	6.0	2.5	2.6	0.0257	26	57	42.0	52	950	83.0	84.5	84.5	0.53	0.64	0.72	5.22
3	4	132S	29.6	6.0	1.9	2.5	0.0566	28	62	61.0	53	970	85.0	85.8	85.8	0.52	0.65	0.73	6.91
4	5.5	132M	39.8	6.5	2.2	2.5	0.0566	30	66	74.0	53	960	86.0	86.8	86.8	0.53	0.66	0.74	8.99
5.5	7.5	132M/L	54.5	7.0	2.5	2.8	0.0755	26	57	80.0	52	965	86.5	88.0	88.0	0.50	0.64	0.72	12.5
7.5	10	160M	73.5	6.5	2.3	2.9	0.1492	20	44	122	56	975	89.3	90.3	90.7	0.63	0.74	0.81	14.7
9.2	12.5	160L	90.2	6.5	2.3	2.9	0.1756	18	40	137	56	975	90.0	90.6	91.0	0.64	0.75	0.81	18.0
11	15	160L	108	6.5	2.4	3	0.2111	16	35	143	56	975	90.0	90.8	91.2	0.62	0.74	0.81	21.5
15	20	180L	147	8.0	2.6	3.2	0.3240	10	22	193	56	975	91.3	91.7	92.0	0.65	0.78	0.84	28.0
18.5	25	200L	180	6.2	2.2	2.8	0.3861	19	42	223	60	980	91.7	92.3	92.5	0.65	0.76	0.82	35.2
22	30	200L	214	6.3	2.3	2.9	0.4563	18	40	240	60	980	92.0	92.6	92.9	0.65	0.76	0.82	41.7
30	40	225S/M	291	7.4	2.3	2.8	0.9559	17	37	401	63	985	93.7	94.0	94.0	0.70	0.80	0.85	54.2
37	50	250S/M	359	7.4	2.3	2.7	1.42	17	37	486	64	985	94.0	94.4	94.4	0.72	0.81	0.85	66.6
45	60	280S/M	434	6.8	2.2	2.7	2.80	32	70	678	65	990	94.1	94.8	95.0	0.65	0.76	0.82	83.4
55	75	280S/M	531	6.7	2.2	2.7	3.25	28	62	723	65	990	94.5	95.0	95.3	0.67	0.77	0.82	102
75	100	315S/M	724	6.7	2.2	2.6	5.44	32	70	962	67	990	95.0	95.6	95.8	0.67	0.78	0.83	136
90	125	315S/M	869	6.7	2.2	2.5	6.51	34	75	1048	67	990	95.3	95.8	96.1	0.67	0.78	0.83	163
110	150	315S/M	1060	6.8	2.4	2.6	7.23	32	70	1106	67	992	95.5	96.0	96.2	0.67	0.78	0.83	199
132	175	315S/M	1274	7.2	2.5	2.7	8.32	26	57	1190	67	990	95.6	96.1	96.3	0.67	0.77	0.82	241
150	200	315L	1448	7.1	2.5	2.8	9.40	25	55	1365	68	990	95.7	96.1	96.3	0.67	0.78	0.83	271
160	220	315L	1544	7.4	2.6	2.7	10.5	24	53	1448	68	990	95.7	96.2	96.4	0.67	0.78	0.83	289
185	250	355M/L	1786	6.6	2.2	2.4	11.1	34	75	1666	73	990	94.9	95.6	95.8	0.64	0.74	0.79	353
200	270	355M/L	1921	6.5	2.1	2.3	12.0	40	88	1739	73	995	95.4	96.0	96.2	0.64	0.75	0.80	375
220	300	355M/L	2113	6.5	2.2	2.3	13.4	36	79	1854	73	995	95.5	96.1	96.3	0.64	0.75	0.80	412
250	340	355M/L	2401	6.5	2.3	2.4	15.0	38	84	1970	73	995	95.5	96.1	96.3	0.64	0.75	0.80	468
260	350	355M/L	2497	6.5	2.3	2.4	15.0	38	84	1970	73	995	95.5	96.1	96.3	0.64	0.75	0.80	487
280	380	355M/L	2689	5.5	2	2.4	15.0	38	84	1970	73	995	95.1	95.7	96.3	0.64	0.75	0.80	525

Note:
(1) Efficiency values are given according to IEC 60034-2-1. They are calculated according to indirect method, with stray load losses determined by measurement.

W22 Severe Process Motor - Premium Efficiency - IE3[1]

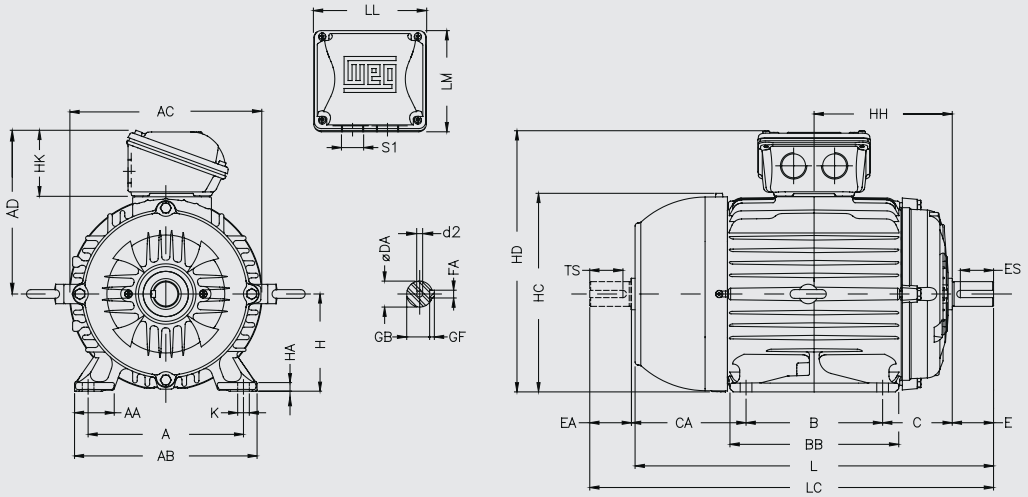
Output		Frame	Full load torque (Nm)	Locked rotor current Il/In	Locked rotor torque Tl/Tn	Breakdown torque Tb/ Tn	Inertia J (kgm²)	Allowable locked rotor time (s)		Weight (kg)	Sound dB (A)	400 V							
												Rated speed (rpm)	% of full load						Full load current In (A)
													Efficiency			Power factor			
kW	HP							Hot	Cold				50	75	100	50	75	100	
VIII pole																			
0.37	0.5	90S	5.12	3.7	2.1	2.4	0.0055	30	66	19.0	43	690	61.0	66.0	66.0	0.41	0.53	0.62	1.31
0.55	0.75	90L	7.67	3.6	1.8	2.1	0.0066	29	64	23.0	43	685	63.0	66.5	66.5	0.44	0.57	0.67	1.78
0.75	1	100L	10.1	4.6	1.9	2.3	0.0127	30	66	30.5	50	710	72.5	75.5	75.5	0.41	0.53	0.62	2.31
1.1	1.5	100L	14.9	4.6	2.1	2.4	0.0143	30	66	33.0	50	705	73.0	76.0	76.0	0.41	0.53	0.62	3.37
1.5	2	112M	20.3	5.0	2.5	2.8	0.0238	28	62	43.0	46	705	79.0	80.5	80.5	0.45	0.59	0.68	3.96
2.2	3	132S	29.6	6.2	2.3	2.5	0.0690	27	59	69.0	48	710	82.0	82.6	82.6	0.51	0.65	0.72	5.34
3	4	132M	40.4	6.4	2.4	2.6	0.0838	21	46	75.0	48	710	82.5	83.5	83.5	0.51	0.64	0.72	7.20
4	5.5	160M	52.7	5.0	2.1	2.3	0.1229	34	75	114	51	725	85.0	86.8	86.6	0.52	0.65	0.72	9.26
5.5	7.5	160M	72.5	5.0	2.1	2.3	0.1492	28	62	123	51	725	86.0	87.3	87.7	0.52	0.65	0.73	12.4
7.5	10	160L	98.2	5.3	2.2	2.5	0.2199	22	48	145	51	730	87.0	88.3	88.9	0.52	0.65	0.73	16.7
9.2	12.5	180M	121	6.0	2	2.6	0.2575	15	33	173	51	725	89.0	89.3	89.6	0.63	0.75	0.82	18.1
11	15	180L	145	6.5	2.3	2.7	0.2846	12	26	185	51	725	89.5	90.0	90.3	0.55	0.68	0.76	23.1
15	20	200L	196	4.9	1.9	2.1	0.4571	34	75	235	56	730	90.0	91.0	91.4	0.56	0.68	0.74	32.0
18.5	25	225S/M	240	6.5	1.7	2.5	0.8219	28	62	377	56	735	93.0	93.0	92.7	0.63	0.75	0.81	35.6
22	30	225S/M	286	6.5	1.8	2.5	0.9574	22	48	402	56	735	93.0	93.1	93.0	0.63	0.75	0.81	42.2
30	40	250S/M	390	7.4	1.9	2.8	1.43	18	40	490	56	735	93.3	93.3	93.2	0.66	0.77	0.83	56.0
37	50	280S/M	478	6.0	1.8	2.3	2.82	32	70	673	59	740	93.7	94.2	94.2	0.63	0.73	0.79	71.8
45	60	280S/M	581	6.0	1.8	2.2	3.49	30	66	741	59	740	94.0	94.5	94.5	0.63	0.73	0.79	87.0
55	75	315S/M	710	6.0	1.7	2.2	5.11	40	88	936	62	740	94.3	94.8	94.8	0.65	0.75	0.80	105
75	100	315S/M	968	6.0	1.8	2.2	6.56	40	88	1049	62	740	94.6	95.1	95.1	0.65	0.75	0.80	142
90	125	315S/M	1162	6.0	1.9	2.2	7.84	40	88	1149	62	740	94.9	95.2	95.3	0.65	0.75	0.80	170
110	150	315L	1420	6.0	1.9	2.2	9.46	35	77	1367	68	740	95.0	95.4	95.4	0.64	0.74	0.79	211
132	175	315L	1704	6.0	2	2.3	11.3	34	75	1508	68	740	95.3	95.7	95.7	0.64	0.74	0.79	252
160	220	355M/L	2052	6.4	1.3	2.3	17.4	56	123	1747	70	745	95.4	95.8	96.0	0.64	0.75	0.80	301
185	250	355M/L	2373	6.3	1.3	2.3	18.5	56	123	1819	70	745	95.5	95.9	96.0	0.64	0.75	0.80	348
200	270	355M/L	2565	6.2	1.3	2.3	18.9	56	123	1891	70	745	95.6	96.1	96.1	0.65	0.76	0.80	375

Note:
(1) Efficiency values are given according to IEC 60034-2-1. They are calculated according to indirect method, with stray load losses determined by measurement.

Mechanical Data

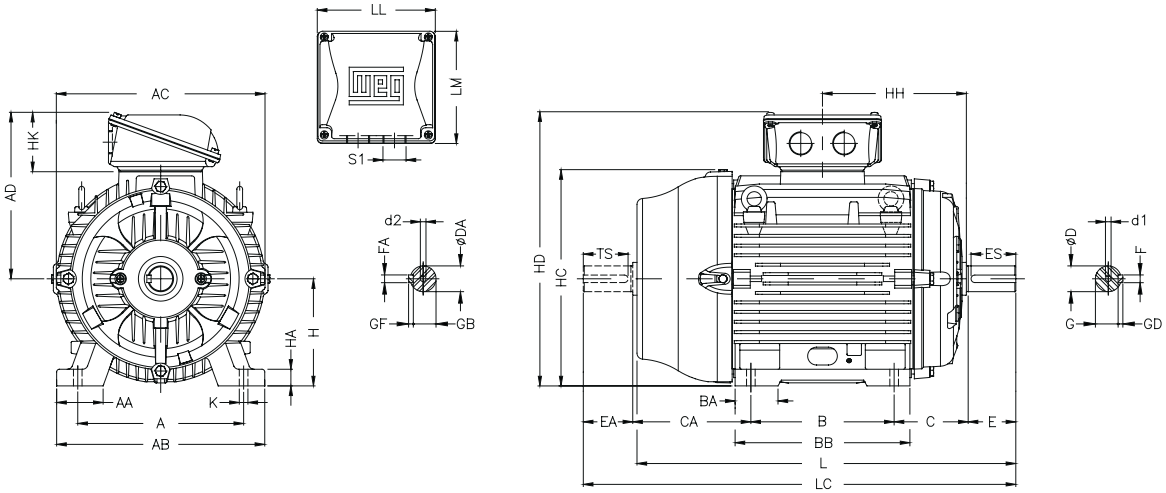
Foot Mounted Motors, Terminal Box Top

Frames 90S to 132M/L

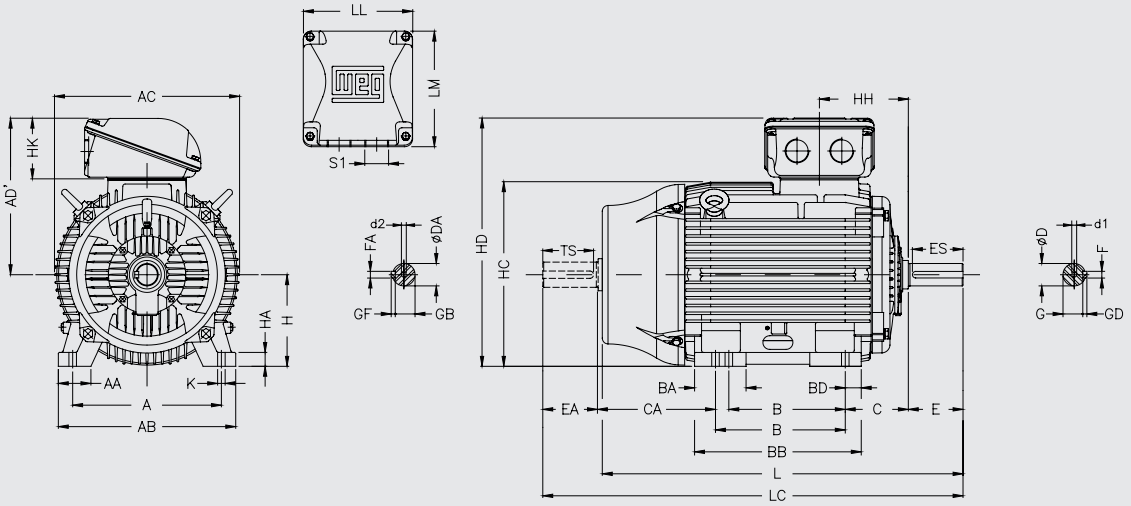


For frames 132S, 132M/L and 132M, the eyebolt will be fitted at 50°.

Frames 160M to 200L



Frames 225 to 355M/L



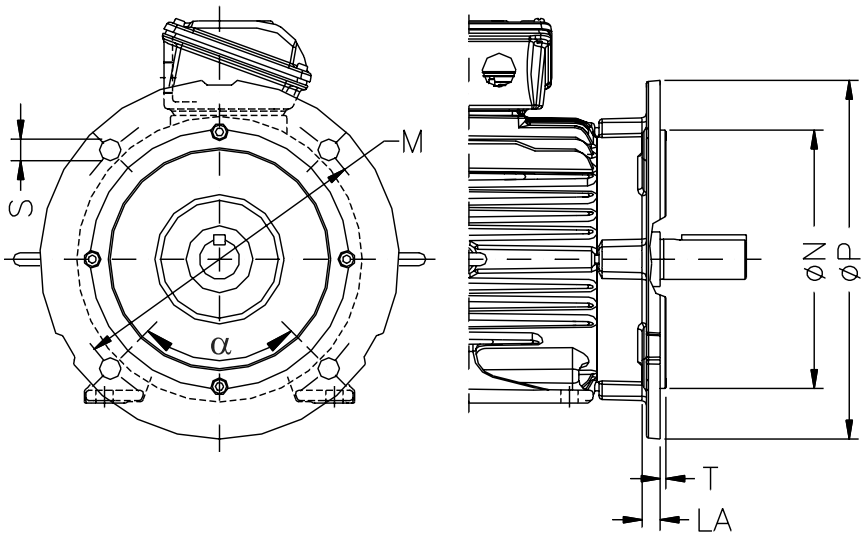
Frame	A	AA	AB	AC	AD	B	BA	BB	BD	C	CA	Shaft											
												D	DA	E	EA	ES	F	FA	G	GB	GD	GF	TS
90S	140	36.5	164	179	157	100	-	131	-	56	104	24j6	16j6	50	40	36	8	5	20	13	7	5	28
L90S											135												
90L						125		156			104												
L90L											135												
100L	160	40	188	199	167	140		173		63	118	28j6	22j6	60	50	45		6	24	18.5		6	36
L100L											162												
112M	190	40.5	220	222	192			177		70	128		24j6					8		20	7	7	
L112M											158												
132S	216	51	248	271	218			187		89	150	38k6	28j6	80	60	63	10		33	24			45
132M						178		225													8		
132M/L																							
160M	254	64	308	329	264	210	63	254		108	174	42k6	42k6	110	110	80	12	12	37	37		8	80
160L						254		298															
180M	279	78	350	360	279	241	70	294		121	200	48k6	48k6				14	14	42.5	42.5	9	9	
180L						279		332															
200M	318	82	385	402	317	267	82	332		133	222	55m6					16		49		10		
200L						305		370															
225S/M	356	80	436	455	384	286/311	124	412	41	149	319/294	55m6(*)	55m6(*)	110(*)	110(*)	100(*)	16(*)	16(*)	49(*)	49(*)	10(*)	10(*)	100(*)
												60m6	60m6	140	140	125	18	18	53	53	11	11	125
250S/M	406	100	506	486	402	311/349	146	467	59	168	354/316	60m6(*)	60m6(*)	140(*)	140(*)	125(*)	18(*)	18(*)	53(*)	53(*)	11(*)	11(*)	125(*)
												65m6	60m6	140	140	125	18	18	58	53	11	11	125
280S/M	457		557	599	472	368/419	151	517	49	190	385/334	65m6(*)	60m6(*)	140(*)	140(*)	125(*)	18(*)	18(*)	58(*)	53(*)	11(*)	11(*)	125(*)
												75m6	65m6	140	140	125	20	18	67.5	58	12	11	125
315S/M	508	120	630	657	530	406/457	184	621	70	216	494/443	65m6(*)	60m6(*)	140(*)	140(*)	125(*)	18(*)	18(*)	58(*)	53(*)	11(*)	11(*)	125(*)
												80m6	65m6	170	140	160	22	18	71	58	14	14	125
315L					575	508	219	752	81		497	65m6(*)	60m6(*)	140(*)	140(*)	125(*)	18(*)	18(*)	58(*)	53(*)	11(*)	11(*)	125(*)
												80m6	65m6	170	140	160	22	18	71	58	14	14	125
355M/L	610	140	750	736	625	560/630	230	760	65	254	483/413	75m6(*)	60m6(*)	140(*)	140(*)	125(*)	20(*)	18(*)	67.5(*)	53(*)	12(*)	11(*)	125(*)
												100m6	80m6	210	170	200	28	22	90	71	16	14	160

Frame	H	HA	HC	HD	HH	HK	K	L	LC	LL	LM	S1	d1	d2	Bearings	
															D.E.	N.D.E.
90S	90	9	182	249	106	67	10	304	350	115	104	2xM25x1.5	M8	M6	6205 - ZZ	6204 - ZZ
L90S								335	381							
90L					118.5			329	375							
L90L								360	406							
100L	100	10	205	272	133		12	376	431				M10	M8	6206 - ZZ	6205 - ZZ
L100L								420	475							
112M	112		235	315	140	80		393	448	140	133	2xM32x1.5			6207 - ZZ	6206 - ZZ
L112M								423	478							
132S	132	20	266	354	159			452	519				M12	M10	6308 - ZZ	6207 - ZZ
132M					178			490	557							
132M/L					191			515	582							
160M	160	22	327	432	213	101	14.5	598	712	198.5	190	2xM40x1.5	M16	M16	6309 - C3	6209 - Z-C3
160L					235			642	756							
180M	180	28	363	467	241.5			664	782						6311 - C3	6211- Z-C3
180L					260.5			702	820							
200M	200	30	405	526.5	266.5	119,5	18.5	729	842	230	220	2xM50x1.5	M20	M20	6312 C3	6212 Z-C3
200L								767	880							
225S/M	225	34	453	606	212	153		856(*)	974(*)	269	285				6314 - C3	
								886	1034							
250S/M	250	43	493	646	214		24	965	1113			2xM63x1.5				
280S/M	280	42	580	727	266	147		1071	1223	314	312				6316 - C3	
315S/M	315	48	664	864	264	176	28	1244(*)	1392(*)	379	382				6314 - C3	
								1274	1426						6319 - C3	6316 - C3
315L					284			1353(*)	1505(*)						6314 - C3	
								1383	1535						6319 - C3	6316 - C3
355M/L	355	50	723	943	340	220		1412(*)	1577(*)	404	436	2xM80x2			6316 - C3	6314 - C3
								1482	1677				M24		6322 - C3	6319 - C3

Notes:
(*) Dimension applicable to 2 pole motors.

Flange Mounted Motors

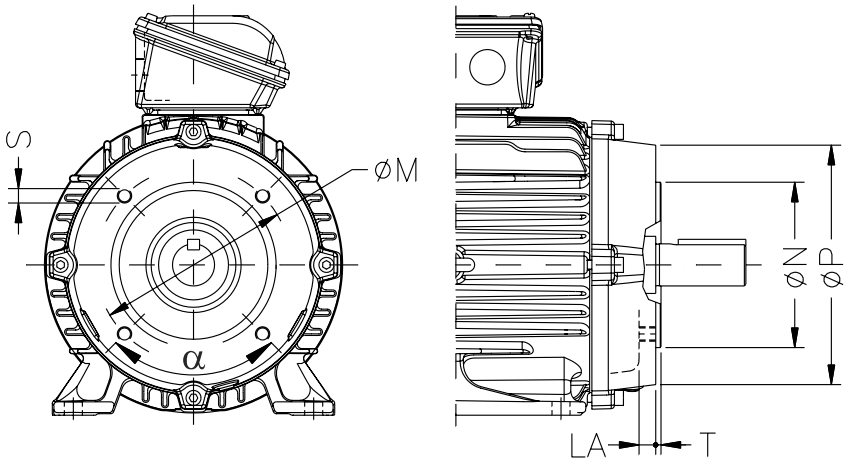
"FF" Flange



Flange "FF"									
Frame	Flange	LA	M	N	P	S	T	α	Nº of holes
90	FF-165	10	165	130	200	12	3.5	45°	4
100	FF-215	11	215	180	250	15	4		
112									
132	FF-265	12	265	230	300				
160	FF-300	18	300	250	350	19	5		
180									
200	FF-350		350	300	400				
225	FF-400	18	400	350	450	19	5	22°30'	8
250	FF-500		500	450	550				
280									
315	FF-600	22	600	550	660	24	6		
355	FF-740		740	680	800/880(*)				

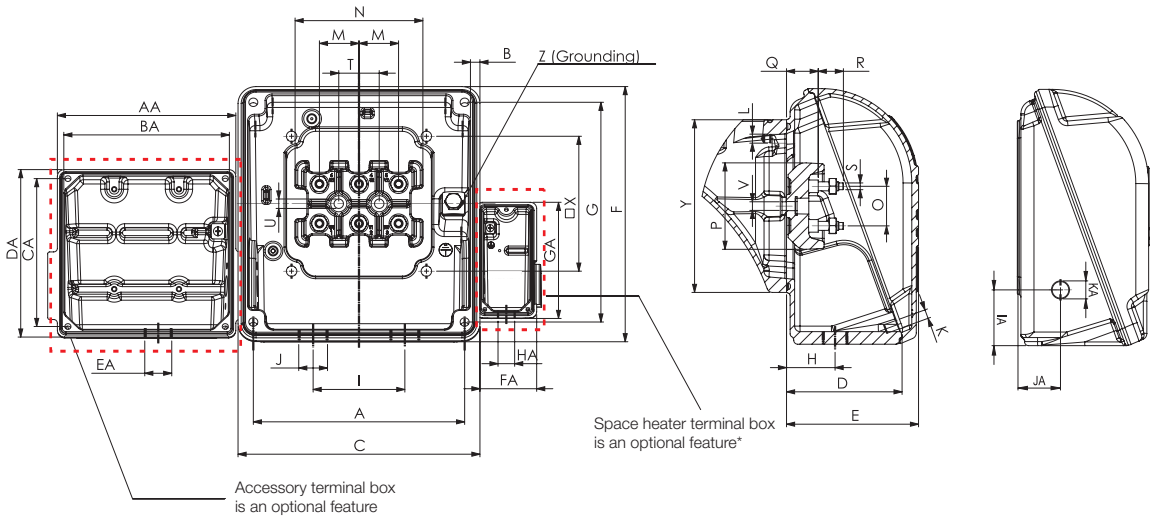
**Only for motors fitted with air deflector in drive end side.*

"C-DIN" Flange



Frame	Flange	LA	M	N	P	S	T	α	N° of holes
90	C-140	12	115	95	140	M8	3	45°	4
100	C-160	13.5	130	110	160		3.5		
112									
132	C-200	15.5	165	130	200	M10			
160	C-250	19	215	180	249	M12	6.3		

Terminal Box Drawings



Frame	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U
90	98	3	115	59.5	67	104	91	31	42	2xM25x1.5	M5x0.8	M5x0.8	16	75	16	35	13.5	12	M4x0.7	20	5.8
100																					
112	117	2.5	140	71	80	133	117	36.5	54	2xM32x1.5	M6x1.0	M6x1.0	23	55	23	52	17	16	M5x0.8	23	6.5
132																					
160	175	4	198.5	90	101	190	175	49	84	2xM40x1.5	M8x1.25	M8x1.25	28	90	28	60	21.5	20.5	M6x1	28	6.6
180																					
200	204	4.5	230	107	119.5	220	204	59	94	2xM50x1.5			35	112	35	74	24	24	M8x1.25	35	9.5
225S/M	235	12.5	269	133	153	285	260	71	110		M10x1.5	M10x1.5	44	140	44	94	28	28	M10x1.5	45	10.5
250S/M										2xM63x1.5											
280S/M	275	13.5	314		147	312	275		126		M12x1.75	M12x1.75	45	153	45	108	34	40	M12x1.75		
315S/M	340	14.5	379	162	176	382	345	78	160												
315L	365		404	202	220	436	390	97	200			M14x2.0	65	210	65	146	48	48	M16x2.0	65	
355M/L										2xM80x2											

Frame	V	X	Y	Z	AA	BA	CA	DA	EA	FA	GA	HA	IA	JA	KA	Max number of connectors		
																Main	Accessories	Space heater
90	M5x0.8	56	77	0.5-6 mm²	109	90	85	98	M20x1.5	68	101.4	M20x1.5	25	22.5	M20x1.5	4	16	4
100			81															
112		70	107	2-10 mm²									35	20		6		
132			103															
160	M6x1.0	110	140	5.2-25 mm²	139	117	117	133					47	40		12	26	
180																		
200	M8x1.25	120	155	5.2-35 mm²									47	45				
225S/M	M10x1.5	150	192	25-50 mm²	198	175	175	189			131.2		62	48		16		
250S/M			197															
280S/M			204	35-70 mm²									77	56				
315S/M		200	260										82	69				
315L		260	300	85-120 mm²									97	79				
355M/L																		

Note:
(*) Space heater terminal box is a special feature for frame sizes 63 to 112.

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